CORALIFE®

CHILLERS

Owner's Manual

Model 1 HP

Model
1/10 HP

Model
1/6 HP

Model
1/4 HP

Model
1/2 HP

Please read these instructions in their entirety before attempting to use this product.

Coralife®
A product of Central Aquatics™
(Division of Central Garden & Pet Co.)
Franklin, WI 53132
888.255.4527 **coralifeproducts.com**
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IMPORTANT SAFETY INSTRUCTIONS

1. **WARNING** – To guard against injury, basic safety precautions should be observed, including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

2. **DANGER** – To avoid possible electric shock, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt repairs by yourself; return the appliance to an authorized service facility for service or discard the appliance:

   A. If the appliance falls into the water, DON'T reach for it! First unplug it and then retrieve it. If electrical components of the appliance get wet, unplug the appliance immediately.

   B. If the appliance shows any sign of abnormal water leakage, immediately unplug it from the power source.

   C. Carefully examine the appliance after installation. It should not be plugged in if there is water on parts not intended to be wet.

   D. Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning or has been dropped or damaged in any manner.

   E. To avoid the possibility of the appliance plug or receptacle getting wet, position aquarium stand and tank to one side of a wall-mounted receptacle to prevent water from dripping onto the receptacle or plug. A "drip loop," shown in Figure 1, should be arranged by the user for each cord connecting an aquarium appliance to a receptacle. The "drip loop" is that part of the cord below the level of the receptacle, or the connector if an extension cord is used, to prevent water traveling along the cord and coming in contact with the receptacle. If the plug or receptacle does get wet, DON'T unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then, unplug and examine for presence of water in the receptacle.

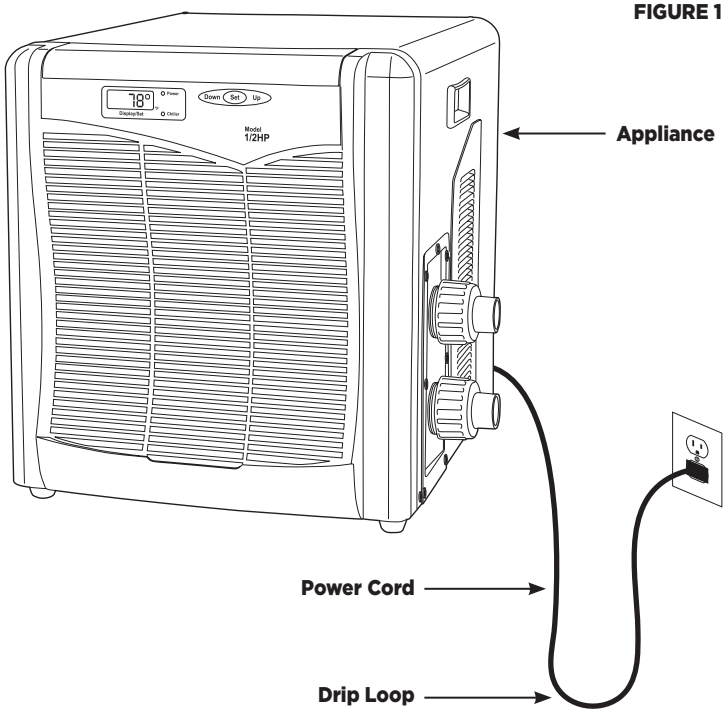


FIGURE 1

3. Close supervision is necessary when any appliance is used by or near children.

4. To avoid injury, do not contact moving parts or hot parts such as heaters, fans, compressor, and the like.

5. Always unplug an appliance from an outlet when not in use, before putting on or taking off parts, and before cleaning. Never yank cord to pull plug from outlet. Grasp the plug and pull to disconnect.
6. Do not use an appliance for other than intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.
7. Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing.
8. Read and observe all the important notices on the appliance.
9. If an extension cord is necessary, a cord with a proper rating should be used. A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
10. For added safety, the fixture must be plugged into a receptacle controlled by a GFI (ground fault interrupter) circuit breaker. Device must be properly connected to a grounded three-prong receptacle.
11. Do not use this appliance in such a way that the vents are restricted or blocked. These vents are necessary to avoid over-heating and insure safe operating temperature.
12. This appliance is intended FOR HOUSEHOLD USE ONLY.

SAVE THESE INSTRUCTIONS!

IMPORTANT SAFETY INFORMATION: Please read the following precautions before use!

1. To reduce the risk of electric shock, always unplug the pump and power cords before performing any maintenance. Do not submerse chiller.
2. Never allow small children to touch, climb-on, or play with the chiller. Adult supervision is required.
3. Never set a chiller on an unsturdy or unsupported structure, such as those which are unable to support the weight of a filled chiller, are suspended, can rock or sway, can sag, or on wheels or allows the chiller to over-hang. These could cause the chiller to leak, crack, or even fall over if a top heavy situation is created.
4. Do not allow chiller to operate dry at any time.
5. Always observe proper maintenance to ensure optimal operation.

HANDLE WITH CARE! Always handle chiller with care to avoid personal injury.

1. Always lift the chiller by the handles.
2 Never lift a chiller with wet hands.
3 Chillers are heavy items and assistance may be required to lift them.

CHILLER LOCATION

1. For best results, place the chiller in a location best suited to support the total weight of the chiller.
2 Always place the chiller in a flat and level area.
3. Keep chiller in a well ventilated area and away from a heating or cooling vent.
4. Do not place near electronic components and systems (i.e. T.V, Stereo systems, etc...).

PARTS DIAGRAM

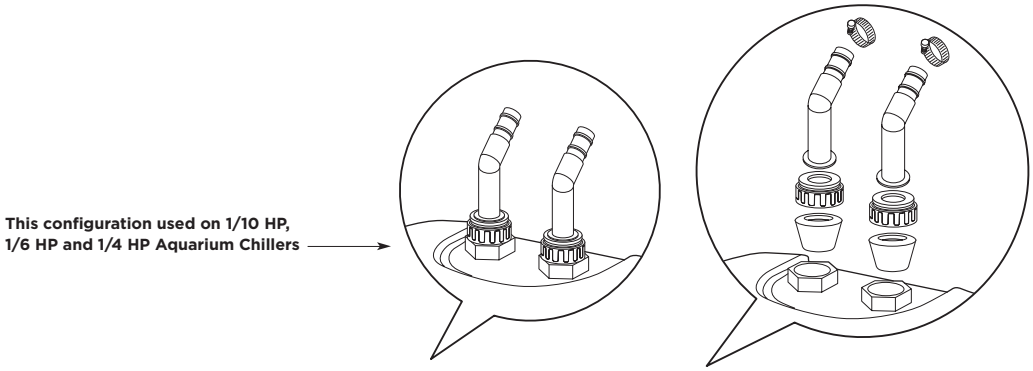
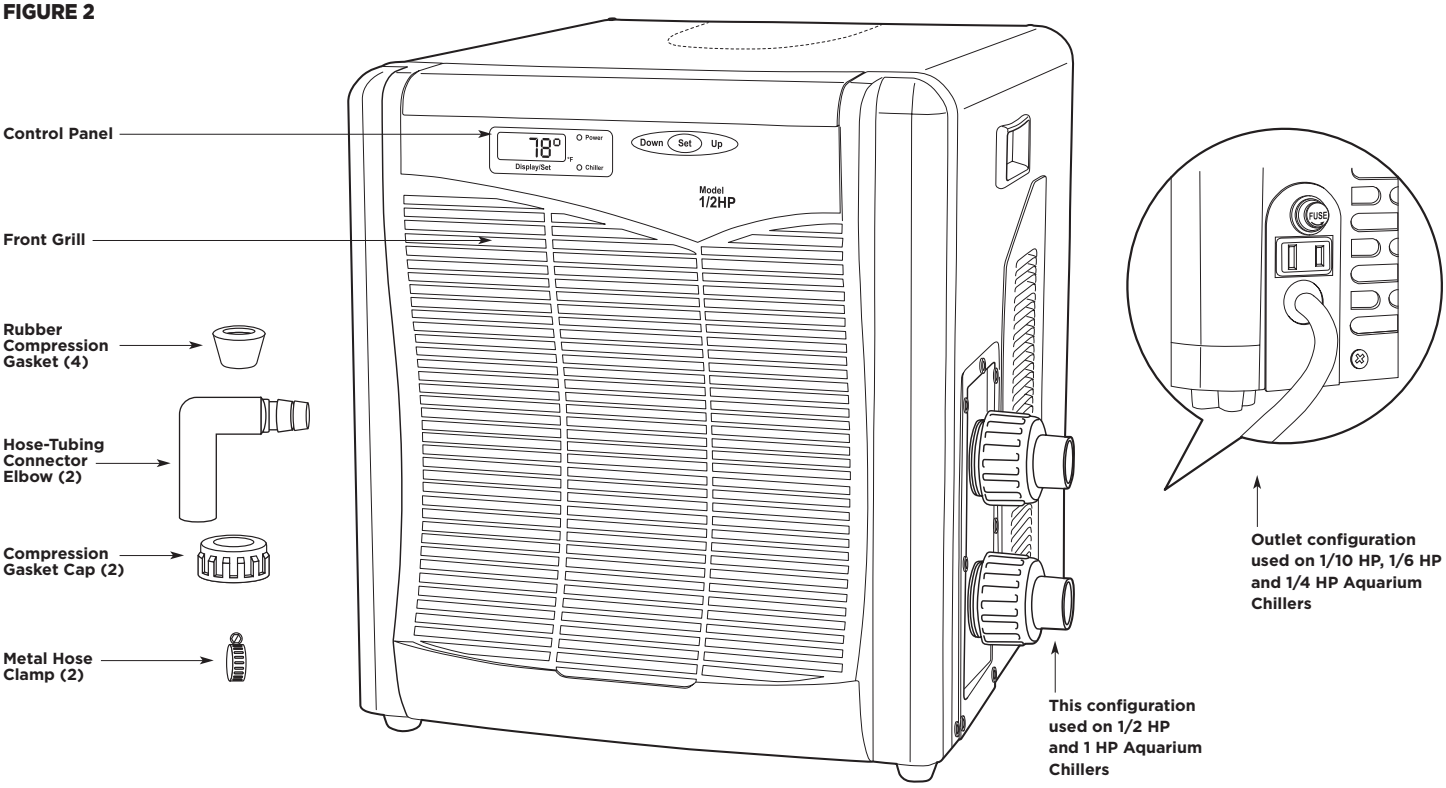


FIGURE 2



PRODUCT SPECIFICATIONS

Model	1/10 HP Aquarium Chiller	1/6 HP Aquarium Chiller	1/4 HP Aquarium Chiller	1/2 HP Aquarium Chiller	1 HP Aquarium Chiller
Recommended Size*	Up to 55 gallon aquarium	Up to 90 gallon aquarium	Up to 125 gallon aquarium	Up to 250 gallon aquarium	Up to 400 gallon aquarium
Rated Voltage	AC120V	AC120V	AC120V	AC120V	AC120V
Rated Cycle	60Hz	60Hz	60Hz	60Hz	60Hz
Fuse Size	10 amp	15 amp	15 amp	n/a	n/a
Rated Power	1/10 HP	1/6 HP	1/4 HP	1/2 HP	1 HP
Temperature Range	39° F - 90° F	39° F - 90° F	39° F - 90° F	39° F - 90° F	39° F - 90° F
Temperature Deferential	+/- 2°	+/- 2°	+/- 2°	+/- 2°	+/- 2°
Preset Temperature	76° F	76° F	76° F	76° F	76° F
Refrigerant	R134A	R134A	R134A	R410A	R410A
Recommended Flow Rate	200 gph - 300 gph	325 gph - 550 gph	475 gph - 800 gph	750 gph - 1,500 gph	1,000 gph - 2,000 gph
Tubing Size Connectors**	5/8" or 3/4" I.D. flexible tubing	5/8" or 3/4" I.D. flexible tubing	5/8" or 3/4" I.D. flexible tubing	3/4" or 1" I.D. flexible tubing	3/4" or 1" I.D. flexible tubing

*Based on a 15° temperature pull down from ambient air temperature.
**Tubing not included.

INSTALLATION

Chiller Placement:

CAUTION: Do not plug chiller to an electrical outlet or power source until installation is completed and circulation pump is activated.

1) Place chiller in a well ventilated area and away from sources of heat.

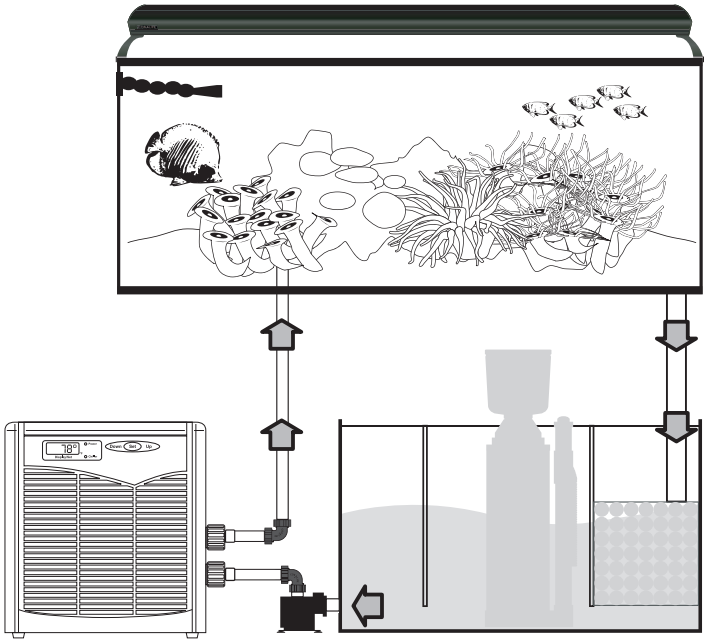
WARNING: The chiller will produce excessive heat if not placed in a well ventilated area.

2) Make sure there is at least 12″ of space in front and back of the chiller for proper air circulation.

3) Make sure that the chiller is not exposed to outdoor elements or weather.

4) Filter the aquarium water before it passes through the chiller to reduce organic deposit and build-up in the chiller. Chiller connections should be placed after all filter media.

Typical Chiller Setup **FIGURE 3**

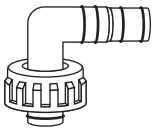


CAUTION: Do not restrict water flow after chiller to prevent leaks caused by pressure buildup.

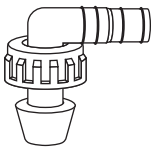
Parts Installation:

1) Remove water chamber caps from chiller.

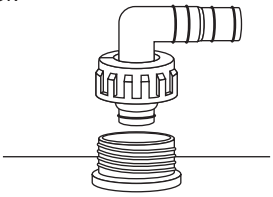
2) Insert hose-tubing connector elbow into compression gasket cap.



3) Slide rubber compression gasket onto hose tubing connector elbow.

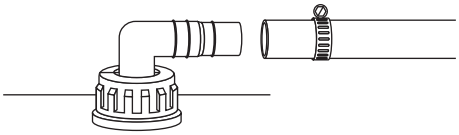


4) Attach to water chamber. Tighten compression gasket cap onto chiller.

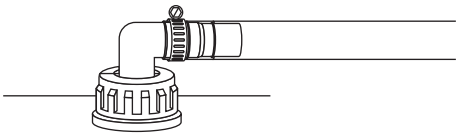


Hose Connection Attachment:

1) Insert metal hose-clamp onto flexible tubing.



2) Attach flexible tubing over hose-tubing connector elbow. Secure and tighten metal hoseclamp (using a flathead screwdriver) onto the elbow.



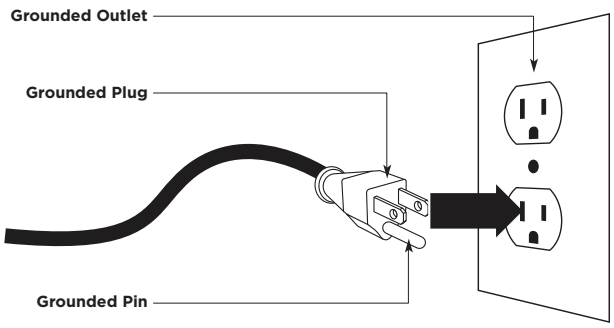
GROUNDING

Grounding Setup:

This appliance should be grounded to minimize the possibility of electric shock. This appliance is equipped with an electric cord having an equipment grounding conductor and a grounding type plug. The plug must be plugged into an outlet that is installed and grounded in accordance with all appropriate codes and ordinances.

This appliance is for use on a nominal 120-volt circuit, and has a grounding plug that looks like the plug illustrated below. (Figure 4)

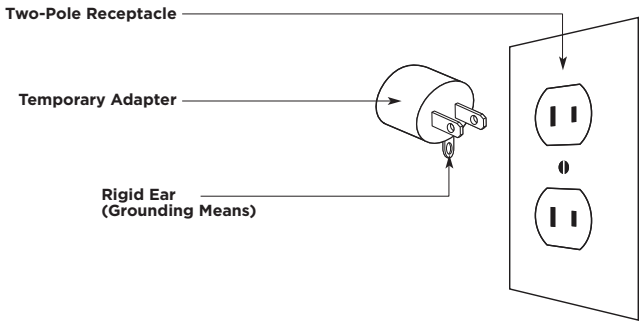
FIGURE 4



A temporary adapter which looks like the adapter illustrated in Figure 5 may be used to connect this plug to a two-pole receptacle as shown, if a grounded outlet is not available.

The temporary adapter should be used only until a grounded outlet can be installed by a qualified electrician.

FIGURE 5



Power Strip Setup:

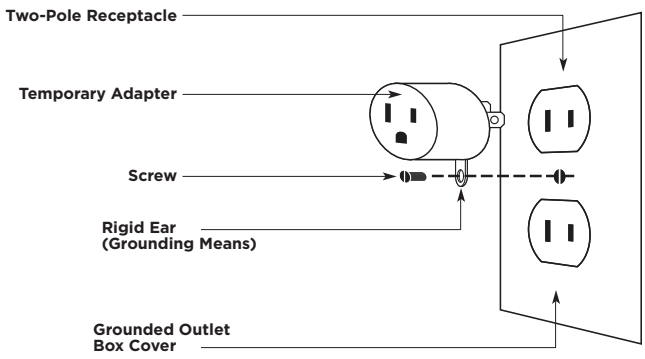
1) If using a powerstrip, the ground connector must be plugged into a receptacle controlled by a GFI (ground fault interrupter) circuit breaker.
2) Make sure to place the power strip in a dry and safe area away from the aquarium in order to avoid moisture.
3) Place power strip in a secure and stable area so that it cannot fall into the aquarium or sump.
4) Make sure all receptacles are protected from water: splash, spilling and evaporation.

Grounding Installation:

The green-colored rigid ear (screw, and the like) extending from the adapter must be fastened to a permanent ground such as a grounded outlet box.

1) Plug temporary adapter into two-pole outlet. Insert screw through rigid ear on temporary adapter and into grounded outlet box. (Figure 6)

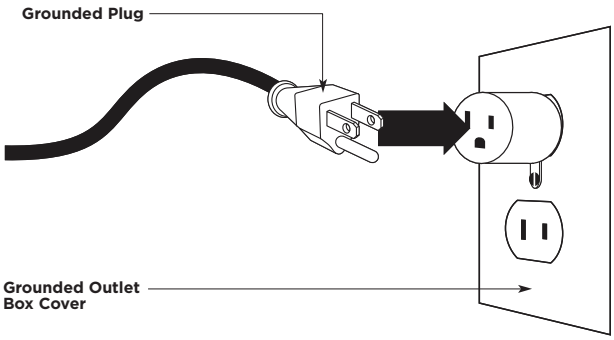
FIGURE 6



2) Plug appliance into temporary adapter. (Figure 7)

Two-Pole Outlet

FIGURE 7



OPERATION

Initial Start-Up

1) Turn on water pump and circulate water through the chiller.

CAUTION: Do not operate chiller without the water circulating through the unit.

2) Check all tubing connections for leaks.

3) Connect chiller power cord into power supply or outlet (120V).

Note: If a grounded outlet is not available, provide grounding means.

4) Turn chiller on.

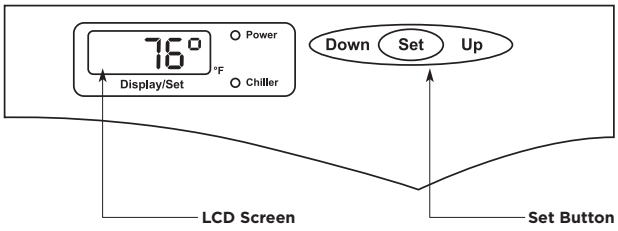
5) Control screen will light up when chiller is turned on.

6) Digital LCD screen will display current water temperature at chiller inlet.

Setting Temperature:

1) Press the “Set” button once. The LCD Screen will start blinking and will display the current set point.

FIGURE 8
CONTROL PANEL for 1/2 HP and 1 HP models



2) Use the up or down arrow keys to adjust the temperature to the desired setting between 39°F and 90°F.

3) Press “Set” button again to return to normal operating mode.

4) When actively cooling, the orange working light will be lit.

Electrical Outlet for Aquarium Heaters:

Size 1/10 HP, 1/6 HP, and 1/4 HP chillers are equipped with an electrical outlet for plugging in an aquarium heater. Should the water temperature in the aquarium drop below the chiller set temperature, the electrical outlet is turned on along with the aquarium heater. The outlet and heater will turn off when the aquarium water reaches the chiller set temperature. An indicator light on chiller control panel will illuminate when electrical outlet and heater are in operation.

FIGURE 9

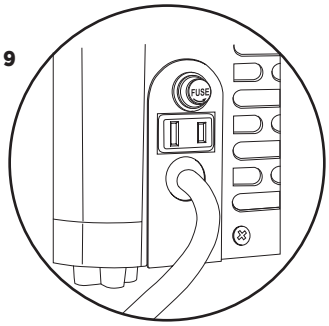
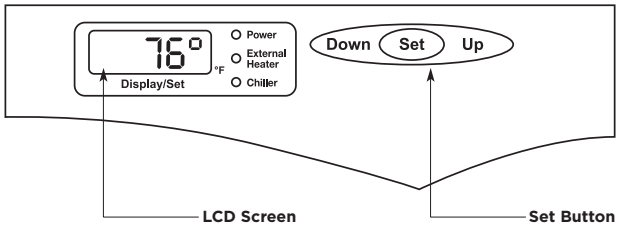


FIGURE 10
CONTROL PANEL for 1/10 HP, 1/6 HP and 1/4 HP models



Frequently Asked Questions

Q. There’s no power to the unit.

A. The plug is not connected to the power supply.

A. The fuse has blown (for 1/10, 1/6, and 1/4 HP models only).

Q. Power is on but the chiller does not turn on.

A. The compressor requires a 3 minute delay between cycles. This is to prevent short cycling of the compressor motor.

A. The actual water temperature is already at or lower than the set point temperature. (Adjust temperature setting to raise or lower the set point temperature).

Q. Water is leaking from the chiller.

A. Compression gasket cap is not on tightly.

A. Flexible tubing is not attached correctly. Check tubing connections and tighten hose-clamp onto flexible tubing.

MAINTENANCE

Note: Chiller has no user serviceable parts.

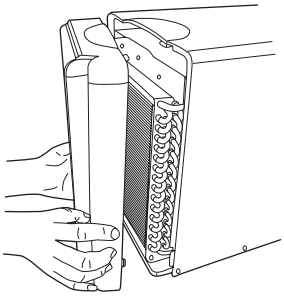
SAFETY: Always unplug chiller from power supply before shutting off the flow of water.

Monthly:

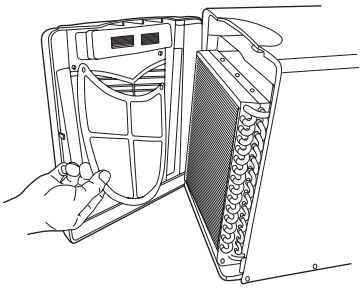
1) Check water pump and filter supplying water to chiller to ensure proper water flow.
2) Clean front grill with a vacuum cleaner to suction off dust and debris.

Every Two Months:

1) Clean front grill filter pads.
   a. Remove grill from clips by gently pulling grill free from the bottom end and unlatching tabs.



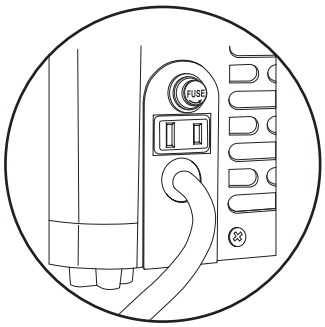
   b. Rinse out filter pad with water and air dry before re-attaching filter to front grill and chiller.
3) Clean heat exchanger.
   a. Use pressurized air or compressed air to clean dust and debris from the heat exchange grill.



Fuse replacement (for Models 1/10 HP, 1/6 HP and 1/4 HP)**:**

Note: Unplug chiller from power supply before replacing fuse.

1) Unscrew fuse cap and remove spent fuse.
2) Insert replacement fuse into cap and tighten cap into chiller.



WARRANTY

Coralife warrants that this product shall be free from defective electrical components due to defects in materials or workmanship for a period of twelve months from the date of purchase. If a defect is shown, Coralife will, at Coralife's sole discretion, either repair or replace the product without charge. No cash refunds will be made. This warranty is provided solely to the original consumer purchaser of the product and may not be transferred or assigned.

This warranty does not apply to damage resulting from accident, misuse, abuse, lack of reasonable care, failure to follow safety and installation instructions, use of the product with non-standard electrical service, or any other defect not resulting from defects in the electrical components of the product or defects in materials or workmanship. This warranty will not be effective unless and until the Coralife product is shown to have been used in accordance with the safety and installation instructions accompanying the product.

THIS CONSTITUTES CORALIFE'S ENTIRE WARRANTY AND CORALIFE MAKES NO OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCT. CORALIFE SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IF CORALIFE CANNOT LAWFULLY DISCLAIM IMPLIED WARRANTIES UNDER THIS LIMITED WARRANTY, ALL SUCH WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

CORALIFE IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY. CORALIFE EXPRESSLY DISCLAIMS ALL ALLEGED DAMAGES FOR LOSS OF AQUATIC LIFE, PERSONAL INJURY, AND/OR PROPERTY DAMAGE. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages or exclusions or limitations on the duration of implied warranties or conditions, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary by state or province.

Coralife shall not have any obligations under this warranty unless the owner notifies Coralife in writing of any alleged defect(s) within 30 days of discovery of the defect(s). Any notice to Coralife must be delivered by United States or electronic mail to one of the following addresses:

U.S. Mail:

Central Aquatics - Coralife
5401 West Oakwood Park Drive
Franklin, Wisconsin 53132

Electronic Mail:
info@central-aquatics.com

Coralife shall be allowed a reasonable period of time to investigate any warranty claim and to perform any testing Coralife deems necessary to determine the cause of the defect. This warranty shall be interpreted under the laws of the state of Wisconsin.

For additional information regarding this limited warranty, please contact us at the addresses above, or call us at 888-255-4527.